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FIRST SEASONAL FLU CASES CONFIRMED IN MICHIGAN

The Michigan Department of Community Health (MDCH) has confirmed the first flu cases of the 2013-14 season. Four cases have been confirmed from Southeast Michigan. Three were influenza A(H1N1) 2009 viruses, and one was influenza A(H3N2). For more information, see our [press release](#).

MICHIGAN HEALTH & HOSPITAL ASSOCIATION WEBSITE

The Michigan Health & Hospital Association, in collaboration with MDCH, has updated resources on its [website](#) regarding healthcare personnel vaccination policies.

AVIAN INFLUENZA A (H7N9)

The World Health Organization has reported a second H7N9 avian flu case this fall. The case is a 67-year-old male farmer from Zhejiang province and is hospitalized. This case brings the global number of H7N9 infections to 137, which includes 45 deaths.

- World Health Organization: [Human infection with avian influenza A\(H7N9\) virus - update](#) (October 24)
- *Eurosurveillance*: [Human infection with avian influenza A\(H7N9\) virus re-emerges in China in winter 2013](#)
- [China reports new human H7N9 bird flu case](#)
- [New China H7N9 strain gives kick to mutant bird flu research](#)

INFLUENZA-RELATED NEWS ARTICLES

- CIDRAP: [Early results in large trial affirm high-dose flu vaccine for seniors](#)
 - Found Fluzone high-dose to be 24% more effective than standard-dose Fluzone at preventing flu in adults 65 years and older
- U.S. DHHS: [Sustainable, international capacity to manufacture influenza vaccine reduces pandemic threat](#)
- World Organization for Animal Health: [OFFLU and WHO extend their collaboration for pandemic preparedness](#)
- [Influenza B survivor sharing her story for campaign](#)
- [European CDC weekly report shows no significant progress of influenza virus](#)

MMWR - SURVEILLANCE OF FLU VACCINATION COVERAGE

The CDC has published an [MMWR](#) on surveillance of flu vaccination coverage in the U.S. from the 2007-08 through 2011-12 flu seasons. Substantial improvement in annual influenza vaccination of recommended groups is needed.

FLU WEBSITES

www.michigan.gov/flu
www.cdc.gov/flu
www.flu.gov
<http://vaccine.healthmap.org/>

H5N1 AVIAN INFLUENZA JOURNAL AND NEWS ARTICLES

- World Health Organization: [21st new human case of avian influenza H5N1 in Cambodia in 2013](#)
- *Vaccine*: [Recombinant duck enteritis virus expressing the HA gene from goose H5 subtype avian influenza virus](#)

INFLUENZA-RELATED JOURNAL ARTICLES

- *Nature Immunology*: [The kinase mTOR modulates the antibody response to provide cross-protective immunity to lethal infection with influenza virus](#)
 - Giving mice flu vaccine plus an immune suppressor caused them to generate antibodies protective against other flu strains, including H5N1 and H7N9
- *Vaccine*: [Increased risk of anaphylaxis following administration of 2009 A/03-adjuvanted monovalent pandemic A/H1N1 \(H1N1pdm09\) vaccine](#)
 - Anaphylaxis after receipt of 2009 pandemic H1N1 vaccine with AS03 adjuvant was more common in Quebec compared with seasonal trivalent flu vaccine
 - Incidence of 13 cases of anaphylaxis per million doses administered
- *Eurosurveillance*: [Late season interim estimates of influenza vaccine effectiveness reliably predict end of season estimates in Victoria, Australia, 2007 to 2012](#)
 - In general, interim estimates were within 5 percentage points of final estimates
 - Estimates made too early or in years of low flu activity may be unreliable
- *Vaccine*: [Impact of maternal characteristics on the effect of maternal influenza vaccination on fetal outcomes](#)
 - Vaccination during pregnancy was associated with reduced odds of adverse outcomes (small for gestational age and preterm births)
 - Vaccination effects varied by socio-demographic characteristics
- *Journal of Infection*: [The high burden of pneumonia on US emergency departments during the 2009 influenza pandemic](#)
 - Study suggests strong association between influenza activity and pneumonia incidence during pandemic period

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